

ABSTRACT

ELECTRONIC WATCH WITH A COMPASS FUNCTION

The wristwatch includes in its case a resistive piezo-electric pressure and temperature sensor (26) exposed to a pressure chamber (42) communicating with the outside environment, for measuring ambient pressure. In order to provide individual calibration as a function of temperature followed by a permanent correction of the sensor pressure signals, the latter is fixed to the lower surface of a printed circuit board (30) bearing the electronic circuits (35) processing the sensor signals. The calibration parameters are stored in a non-volatile memory (36) of said circuits. A rigid and sealed separating wall (43) forms an internal bottom separating the pressure chamber (42) from the watch sealed part.

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Figure 2